

Figure 1A

L-PBE_Canine	1	MAEYTRLHNA LALIRLRNPP VNAISTAVLR GIKDGLQKAT TDRTVKAIVL	50
L-PBE_Human		MAEYTRLHNA LALIRLRNPP VNAISTLLR DIKEGLQKAG RDHTIKAIIVI	
L-PBE_Mouse		MAEYLRLPHS LAMIRLCNPP VNAISPTVIT EVRNGLQKAS LDHTVRAIVI	
L-PBE_Rat		MAEYLRLPHS LAMIRLCNPP VNAVSPTVIR EVRNGLQKAG SDHTVKAIVI	
L-PBE_Canine	51	CGADGKFSAG ADIHSFGEPR KSDFVLGHIV DEIQRTEKPV VAAIQGLALG	100
L-PBE_Human		CGAECKFSAG ADIRGFSAPP TFGLILGHVV DEIQRNEKPV VAAIQGMAFG	
L-PBE_Mouse		CGANDNFCAG ADIHGFKSPT ..GLTGLSLV DEIQRYQKPV VAAIQGVALG	
L-PBE_Rat		CGANGNFCAG ADIHGFSAFT P.GLALGSLV DEIQRYQKPV LAAIQGVALG	
L-PBE_Canine	101	GGLELALGCH YRIAHAEAQI GFPEVTLGIL PGARGTQLLP RLIGVPAALD	150
L-PBE_Human		GGLELALGCH YRIAHADAQV GLPEVTLGIL PGARGTQLLP RLTGVPAALD	
L-PBE_Mouse		GGLELALGCH YRIANAKARV GFPEVMLGIL PGARGTQLLP RVVGVPVALD	
L-PBE_Rat		GGLELALGCH YRIANAKARV GLPEVTLGIL PGARGTQLLP RVVGVPVALD	
L-PBE_Canine	151	LITSGRHVLA DEALKLGILD EIVNSDPVEE AIKLAQRISD QSLESRRLCN	200
L-PBE_Human		LITSGRRILA DEALKLGILD KVNVNSDPVEE AIRFAQRVSD QPLESRRLCN	
L-PBE_Mouse		LITSGRHIST DEALKLGILD VVVKSNDPVEE AIKFAQTVIG KPIEPRRILN	
L-PBE_Rat		LITSGKYLSA DEALRLGILD AVVKSDPVEE AIKFAQKIID KPIEPRRIFN	
L-PBE_Canine	201	KPIQSLPNME SIFSEALSKM QKQHPGCLAP ETCVRAVQAA VHCPYEVGIQ	250
L-PBE_Human		KPIQSLPNMD SIFSEALLKM RRQHPGCLAQ EACVRAVQAA VQYPYEVGIK	
L-PBE_Mouse		KPVPSLPNMD SVFAEAIAKV RKQYPGRLAP ETCVRSVQAS VKHPYEVAIK	
L-PBE_Rat		KPVPSLPNMD SVFAEAIAKV RKQYPGVLAP ETCVRSSIQAS VKHPYEVGIK	
L-PBE_Canine	251	KEKELFMYLQ KSGQARALQY AFFAERNATK WSTPSGASWK TAIAQPISSV	300
L-PBE_Human		KEEEELFLYLL QSGQARALQY AFFAERKANK WSTPSGASWK TASARPVSSV	
L-PBE_Mouse		EEAKLFMYLR GSGQARALQY AFFAEKSANK WSTPSGASWK TASAQPVSSV	
L-PBE_Rat		EEEKLFMYLR ASGQAKALQY AFFAEKSANK WSTPSGASWK TASAQPVSSV	
L-PBE_Canine	301	GVVGLGTMGR GIVVSLAKAK IPVIAVESDK KQLETADMII TTLLEKEASK	350
L-PBE_Human		GVVGLGTMGR GIVISFARAR IPVIGVDSK NQLATANKMI TSVLEKEASK	
L-PBE_Mouse		GVLGLGTMGR GIAISFARVG IPVVAVESDP KQLDTAKKII TSTLEKEAS.	
L-PBE_Rat		GVLGLGTMGR GIAISFARVG ISVVAVESDP KQLDAAKKII TFTLEKEASR	
L-PBE_Canine	351	MQRSSHPSLG PKPRLTTSMK ELGGVDLVIE AVFEEINLKK RVFAELSAIC	400
L-PBE_Human		MQQSGHPWSG PKPRLTSSVK ELGGVDLVIE AVFEEMSLKK QVFAELSAVC	
L-PBE_Mouse		.K.SGQASAK PNLRFSSSTK ELSSVDLVIE AVFEDMNLLKK KVFAELSAJC	
L-PBE_Rat		AHQNGQASAK PKLRFSSSTK ELSTVDLVVE AVFEDMNLLKK KVFAELSAJC	
L-PBE_Canine	401	KPEAFLCTNT SALDIDEIAS STDRPHLVIG THFFSPAHHM KLLEIIPSQY	450
L-PBE_Human		KPEAFLCTNT SALDVDEIAS STDRPHLVIG THFFSPAHHM KLLEVIPSQY	
L-PBE_Mouse		KPGAFLCTNT SALDVDDIAS STDRPQLVIG THFFSPAHHM RLLEVIPSRY	
L-PBE_Rat		KPGAFLCTNT SALNVDDIAS STDRPQLVIG THFFSPAHHM RLLEVIPSRY	
L-PBE_Canine	451	SSPTTIATVM NLSKKIKKIG VVVGNCFGFV GNRMLKPYYN QTYFLLEEGS	500
L-PBE_Human		SSPTTIATVM NLSKKIKKIG VVVGNCFGFV GNRMLNPYYN QAYFLLEEGS	
L-PBE_Mouse		SSPTTIATVM SLSKRIGKIG VVVGNCYGFV GNRMLAPYYN QGYFLIEEGS	
L-PBE_Rat		SSPTTIATVM SLSKKIGKIG VVVGNCYGFV GNRMLAPYYN QGFFLLEEGS	
L-PBE_Canine	501	RPEEIDQVLE EFGFKMGPFR VSDDLGLDVG WKSRQGQGLT GPMVPSGTPA	550
L-PBE_Human		KPEEVQVLE EFGFKMGPFR VSDDLGLDVG WKSRKGQGLT GPTLLPGTPA	
L-PBE_Mouse		KPEDVDGVLE EFGFRMGPFR VSDDLGLDVG WKVRKGQGLT GPSLPPGTPT	
L-PBE_Rat		KPEDVDGVLE EFGFKMGPFR VSDDLGLDVG WKIRKGQGLT GPSLPPGTPV	
L-PBE_Canine	551	RKRGNNRRYCP IPDLLCESGR FGQKTGKGWY QYDKPLGRIH KPDPWLSEFL	600
L-PBE_Human		RKRGNNRRYCP IPDVLCELGR FGQKTGKGWY QYDKPLGRIH KPDPWLSTFL	
L-PBE_Mouse		RKRGNTRYSP IADMCEAGR FGQKTGKGWY QYDKPLGRIH KPDPWLSEFL	
L-PBE_Rat		RKRGNSRYSP LGDMLCEAGR FGQKTGKGWY QYDKPLGRIH KPDPWLSTFL	

Figure 1B

L-PBE_Canine	601	SQYRKTYHIE PRIISQDEIL ERCLYSLINE AFRILGEGMA ADPEHIDVVY	650
L-PBE_Human		SRYRKPHHIE PRTISQDEIL ERCLYSLINE AFRILGEGIA ASPEHIDVVY	
L-PBE_Mouse		SQYRETHHIK QRSISKEEIL ERCLYSLINE AFRILEEGMA ASPEHIDVIY	
L-PBE_Rat		SQYREVHHIE QRTISKEEIL ERCLYSLINE AFRILEEGMA ARPEHIDVIY	
L-PBE_Canine	651	LHGYGWPRHR GGPMFYASTV GLPTVLEKLQ KYRQNPDIP QLEPCDYLKK	700
L-PBE_Human		LHGYCCARHK GGPMFYASTV GLPTVLEKLQ KYRQNPDIP QLEPSDYLKK	
L-PBE_Mouse		LHGYGWPRHV GGPMYYAASV GLPTVLEKLQ KYRQNPDIP QLEPSDYLRR	
L-PBE_Rat		LHGYGWPRHK GGPMFYAASV GLPTVLEKLQ KYRQNPDIP QLEPSDYLRR	
L-PBE_Canine	701	LASLGNPPLK EWQSLAGSPS SKL	723
L-PBE_Human		LASQGNPPLK EWQSLAGSPS SKL	
L-PBE_Mouse		LVAQQSPPLK EWQSLAGPHS SKL	
L-PBE_Rat		LVAQQSPPLK EWQSLAGPHG SKL	

Figure 2A

L-PBE_Canine	1	ATGGCCGAGT ATACGCGGCT GCACAACGCC TTGGCGTTGA TCCGCCTCCG	50
L-PBE_Human		ATGGCCGAGT ATACGCGGCT GCACAACGCC TTGGCGCTAA TCCGCCTCCG	
L-PBE_Mouse		ATGGCTGAGT ATCTGAGGCT GCCCCACTCC CTGGCTATGA TCCGCCTCTG	
L-PBE_Rat		ATGGCTGAGT ATCTGAGGCT GCCCCACTCC CTGGCGATGA TCCGCCTCTG	
L-PBE_Canine	51	AAACCCGCG GTCAACGCCA TCAGTACGGC TGTAATCCGT GGAATAAAAG	100
L-PBE_Human		AAACCCGCG GTCAACGCCA TCAGTACGAC TTATCTCCGT GATATAAAAG	
L-PBE_Mouse		CAATCCACCG GTCAATGCCA TCAGTCCAAC TGTAAATCACA GAAGTAAGGA	
L-PBE_Rat		CAACCCGCCA GTCAACGCCA TCAGTCCAAC TGTAAATCAGG GAAGTAAGAA	
L-PBE_Canine	101	ACGGATTGCA GAAAGCTTAC ACAGACCGTA CAGTAAAAGC TATTGTGCTT	150
L-PBE_Human		AAGGACTACA GAAAGCTGGA AGAGACCATA CAATAAAAGC CATTGTGATT	
L-PBE_Mouse		ATGGACTCCA GAAAGCTTAGT TTGGACCATA CGGTTAGAGC CATAGTGATC	
L-PBE_Rat		ATGGACTCCA GAAAGCTGGA TCAGACACCA CGGTTAAAGC CATTGTGATC	
L-PBE_Canine	151	TGCGGAGCAG ATGGCAAATT CTCTGCAGGT GCTGATATCC ACAGCTTTGG	200
L-PBE_Human		TGTGGAGCAG AGGGCAAATT TTCTGCAGGT GCTGATATTC GTGGCTTCAG	
L-PBE_Mouse		TGTGGAGCAA ATGACAACCT CTGTGCAGGT GCTGATATCC ATGGCTTTA.	
L-PBE_Rat		TGTGGCGCAA ACGGAAACTT CTGTGCAGGT GCTGATATCC ATGGCTTTAG	
L-PBE_Canine	201	TGAGCCCCAGA AAGTCTGACT TTGTACTAGG ACATATAGTA GATGAAATAC	250
L-PBE_Human		TGCTCTCTAGG ACATTTGGCC TTATACTGGG ACATGTAGTA GATGAAATAC	
L-PBE_Mouse		..AATCTCCC A...CTGGCC TTACATTTAGG AAGCTTGGTA GATGAAATAC	
L-PBE_Rat		TGCTTTTACCA C...CTGGCC TTGCATTAGG AAGCTTGGTA GATGAAATAC	
L-PBE_Canine	251	AGAGAACTGA GAAGCCCGTG GTGGCAGCTA TTCAAGGCCT GGCTTTAGGA	300
L-PBE_Human		AGAGAAATGA GAAGCCCGTG GTGGCAGCAA TCCAAGGCAT GGCTTTGG	
L-PBE_Mouse		AGCGATACCA GAAGCCAGTG GTGGCCGCCA TCCAAGGCAT GGCTCTGG	
L-PBE_Rat		AGAGATACCA GAAGCCGGTG TTGGCCGCTA TCCAAGGTGT GGCTCTGG	
L-PBE_Canine	301	GGGGGACTGG AGCTGGCGCT GGGCTGTCAC TATAGGATTG CTCATGCAGA	350
L-PBE_Human		GGGGGACTTAG AGCTGGCCCT GGGCTGTCAC TATAGGATTG CCCACGCAGA	
L-PBE_Mouse		GGAGGACTAG AGCTGGCCTT GGGCTGTCAC TATCGGATTG CCAATGCAAA	
L-PBE_Rat		GGAGGACTGG AGCTGGCCTT GGGCTGTCAC TATCGGATTG CCAATGCAAA	
L-PBE_Canine	351	GGCTCAAATT GGCTTCCCAG AAGTCACACT AGGAATCCTT CCTGGTGCAA	400
L-PBE_Human		CGCTCAAGTT GGCTTACCAAG AAGTTACACT TGACTTCTC CCTGGTGCAA	
L-PBE_Mouse		GGCTCGTGTGTT GGCTTCCCAG AAGTGATGCT GGGATTCTT CCTGGTGCAA	
L-PBE_Rat		GGCTCGTGTGTC GGCTTGCCAG AAGTCACACT GGGGATTCTT CCTGGTGCAA	
L-PBE_Canine	401	GAGGAACCCA GCTTCTCCCC AGACTCATTG GAGTTCCCTGC TGCACTTGAC	450
L-PBE_Human		GAGGAACCCA GCTTCTCCCC AGACTCACTG GAGTTCCCTGC TGCACTTGAC	
L-PBE_Mouse		GAGGAACGCA GCTTCTACCC AGGGTCGTTG GAGTTCCCTGT TGCTCTTGAC	
L-PBE_Rat		GAGGAACCCA GCTTCTCCCC AGGGTCGTTG GAGTTCCCTGT TGCTCTTGAC	
L-PBE_Canine	451	TTAATTACCT CAGGAAGACA TGTTTGGCA GATGAAGCAC TCAAGCTGGG	500
L-PBE_Human		TTAATTACCT CAGGAAGACG TATTTAGCA GATGAAGCAC TCAAGCTGGG	
L-PBE_Mouse		TTAATTACCT CAGGAAGACA TATTTCAACA GATGAAGCAC TCAAGCTGG	
L-PBE_Rat		CTAATTACCT CAGGAAAATA TCTTTCAGCA GATGAAGCAC TCAGGCTTG	
L-PBE_Canine	501	TATCCTAGAT GAAATTGTGA ACTCAGACCC GGTGAAGAA GCAATCAAAT	550
L-PBE_Human		CATTCTAGAT AAAGTTGTAA ACTCAGACCC GGTGAAGAA GCAATCAGAT	
L-PBE_Mouse		AATTCTGGAT GTAGTTGTAA AGTCAGACCC AGTTGAAGAA GCCATCAAAT	
L-PBE_Rat		AATTCTGGAT GCAGTCGTGA AGTCAGACCC AGTTGAAGAA GCCATCAAAT	

Figure 2B

L-PBE_Canine	551	TAGCCCAGAG	AATCTCTGAT	CAATCTCTAG	AATCCCGTAG	ACTCTGCAAC	600
L-PBE_Human		TTGCTCAGAG	AGTTTCAGAT	CAACCTCTAG	AATCCCGTAG	ACTCTGCAAC	
L-PBE_Mouse		TTGCTCAGAC	GGTTATAGGT	AAACCCATAG	AACCCCGCAG	GATCCTAAC	
L-PBE_Rat		TTGCTCAGAA	GATTATAGAT	AAACCCATAG	AACCCCGCAG	GATCTTAAAC	
L-PBE_Canine	601	AAGCCAATTTC	AGAGCTTGCC	CAACATGGAG	AGTATTTTCA	GTGAAGCCCT	650
L-PBE_Human		AAGCCAATTTC	AGAGCTTGCC	CAACATGGAC	AGCATTTTTA	GTGAGGCCCT	
L-PBE_Mouse		AAGCCAGTCC	CAAGCTTGCC	CAACATGGAC	AGTGTTTTTG	CAGAAGCCAT	
L-PBE_Rat		AAGCCAGTTC	CAAGCTTGCC	CAACATGGAC	AGTGTTTTTG	CAGAAGCCAT	
L-PBE_Canine	651	TTCGAAAGATG	CAGAAGCAGC	ATCCCGGGTG	CCTTGCTCCA	GAGACTTGTG	700
L-PBE_Human		CTTGAAGATG	CGGAGGCAGC	ACCCTGGGTG	TCTTGACAG	GAGGCTTGTG	
L-PBE_Mouse		TGCCAAGGTA	CGGAAGCAGT	ACCCTGGCCG	CCTGGCTCCG	GAGACTTGTG	
L-PBE_Rat		CGCCAAGGTA	CGAAAACAGT	ACCCTGGTGT	CCTGGCTCCG	GAGACGTGTG	
L-PBE_Canine	701	TCCGTCAGT	CCAGGCTGCC	GTGCATTGTC	CCTACGAAGT	GGGCATCCAG	750
L-PBE_Human		TCCGTCAGT	CCAGGCTGCT	GTGCAGTATC	CCTATGAAGT	GGGCATCAAG	
L-PBE_Mouse		TCCGTTCAAGT	CCAGGCCTCC	GTGAAGCATC	CATATGAAGT	GGCCATCAAG	
L-PBE_Rat		TCCGCTCAAT	CCAGGCCTCT	GTGAAGCATC	CCTACGAAGT	AGGCATCAAG	
L-PBE_Canine	751	AAGGAGAAGG	AGCTGTTTAT	GTACCTTCAG	AAATCAGGGC	AGGCTAGAGC	800
L-PBE_Human		AAGGAGGAGG	AGCTGTTCT	ATATCTTTG	CAATCAGGGC	AGGCTAGAGC	
L-PBE_Mouse		GAAGAAGCAA	AGCTGTTTAT	GTACCTTCGG	GGGTCGGGGC	AGGCTAGAGC	
L-PBE_Rat		GAAGAGGAAA	AGCTGTTTAT	GTACCTCCGG	GCATCCGGGC	AGGCTAAAGC	
L-PBE_Canine	801	CCTGCAATAT	GCTTTCTTTG	CAGAGAGGAA	TGCAACTAAG	TGGTCAACTC	850
L-PBE_Human		CCTGCAATAT	GCTTTCTTCG	CTGAAAAGGAA	ACGAAATAAG	TGGTCAACTC	
L-PBE_Mouse		CCTGCAAGTAC	GCCTTTTTTG	CTGAAAAGTC	TGCAAATAAG	TGGTCAACTC	
L-PBE_Rat		CCTACAGTAT	GCCTTCTTTG	CTGAAAAGTC	TGCAAATAAG	TGGTCAACTC	
L-PBE_Canine	851	CCTCTGGAGC	ATCCTGGAAA	ACAGCCATAG	CACAGCCCAT	CTCCTCAGTT	900
L-PBE_Human		CCTCCGGAGC	ATCGTGGAAA	ACAGCATCAG	CGGGCCCTGT	CTCCTCAGTT	
L-PBE_Mouse		CCTCAGGAGC	ATCTGGAAA	ACAGCATCTG	CTCAACCGT	CTCCTCGGTT	
L-PBE_Rat		CCTCAGGAGC	GTCTGGAAA	ACAGCCTCTG	CTCAACCGT	CTCCTCAGTT	
L-PBE_Canine	901	GGCCTTGTGCG	GCTTGGGAAC	AATGGGCCGA	GGCATTGTTG	TTTCTCTTGC	950
L-PBE_Human		GGTCTTGTGCG	GCTTGGGAAC	AATGGGCCGA	GGCATTGTC	TTTCTTTTGC	
L-PBE_Mouse		GGTCTTCTTG	GCTTGGGAAC	GATGGGCCGA	GGCATCGCCA	TCTCTTTTGC	
L-PBE_Rat		GGCCTTCTTG	GCTTGGGAAC	GATGGGCCGA	GGCATCGCCA	TTTCTTTTGC	
L-PBE_Canine	951	GAAGGCCAAG	ATCCCAGTGA	TTGCTGTGGA	ATCGGACAAG	AAGCAGCTAG	1000
L-PBE_Human		AAGGGCCAGG	ATTCCTGTGA	TTGGCTGTAGA	CTCGGACAAA	AACCAGCTAG	
L-PBE_Mouse		AAGGGTGGGG	ATCCCTGTGG	TTGCTGTAGA	GTCAGACCCA	AAGCAGCTAG	
L-PBE_Rat		GAGAGTGGGG	ATCTCTGTGG	TTGCTGTGGA	GTCAGACCCA	AAGCAGCTAG	
L-PBE_Canine	1001	AGACTGCTGA	TATGATAATA	ACTACCCCTCT	TGAAAAGGA	AGCATCCAAA	1050
L-PBE_Human		CAACTGAAA	CAAGATGATA	ACCTCTGTCT	TGAAAAAAGGA	AGCCTCCAAA	
L-PBE_Mouse		ATACTGAAA	GAAGATAATA	ACTTCCACCT	TGAAAAGGA	AGCATCGA..	
L-PBE_Rat		ATGCTGAAA	GAAGATAATC	ACTTTCACCT	TGAGAGAAGGA	AGCATCCAGA	
L-PBE_Canine	1051	ATGCAGCGTA	GCAGCCACCC	GTCGTTAGGA	CCAAAACCCA	GGTTAACTAC	1100
L-PBE_Human		ATGCAACAGA	GCGGCCACCC	TTGGTCAGGA	CCAAAACCCA	GGTTAACTTC	
L-PBE_Mouse	AGA	GTGGCCAAGC	TTCAGCAAAA	CCAAACCTCA	GGTTCTCCTC	
L-PBE_Rat		GCGCATCAGA	ACGGCCAAGC	TTCGGAAAAA	CCAAAACCTCA	GGTTCTCCTC	

Figure 2C

L-PBE_Canine	1101	ATCTATGAAG GAGCTTGGTG GTGTAGATT AGTCATTGAA GCAGTATTTG	1150
L-PBE_Human		ATCTGTGAAG GAGCTTGGTG GTGTAGATT AGTCATTGAA GCAGTATTTG	
L-PBE_Mouse		ATCCACAAAG GAGCTTTCGA GTGTGGATT AGTGATTGAA GCAGTGTTCG	
L-PBE_Rat		ATCCACAAAG GAACTTCAA CTGTGGATT GGTGGTTGAA GCAGTGTTCG	
L-PBE_Canine	1151	AGGAAATTAA CCTGAAGAAG AGGGCTTTG CTGAACGTGC GGCTATATGC	1200
L-PBE_Human		AGGAAATGAG CCTGAAGAAG CAGGTCTTTG CTGAACCTCTC AGCTGTGTGC	
L-PBE_Mouse		AAGATATGAA CCTGAAGAAG AAGGTCTTCG CTGAACGTGC AGCCCTGTGC	
L-PBE_Rat		AAGACATGAA CCTGAAGAAA AAGGTCTTTG CTGAGCTGTC AGCCCTGTGC	
L-PBE_Canine	1201	AAGCAGAACG CTTTCTGTG CACCAATACT TCAGCCCTAG ACATTGATGA	1250
L-PBE_Human		AAACCAGAACG CATTCTGTG CACTAATACT TCAGCCCTGG ATGTTGATGA	
L-PBE_Mouse		AAGCCGGGAG CTTTCTGTG CACCAATAACC TCAGCACTGG ATGTTGATGA	
L-PBE_Rat		AAGCCAGGAG CTTTCTGTG CACCAATAACC TCAGCGCCTGA ACGTGGACGA	
L-PBE_Canine	1251	GATTGCTTCT TCCACTGATC GTCCCTCACTT GGTCATTGGC ACTCACTTCT	1300
L-PBE_Human		GATTGCTTCT TCCACTGATC GTCCCTCACTT GGTCATTGGC ACCCACTTCT	
L-PBE_Mouse		CATTGCTTCT TCCACAGATC GCCCCCCAGCT GGTGATTGGC ACCCACTTCT	
L-PBE_Rat		CATTGCTTCT TCCACAGATC GCCCTCAGCT GGTGATTGGC ACCCACTTCT	
L-PBE_Canine	1301	TCTCACCGAC TCACGTCATG AAGTTGTTAG AGATTATTCC CAGCCAATAC	1350
L-PBE_Human		TTTCGCCAGC TCATGTCATG AAGTTGTTAG AGTTTATTCC CAGCCAATAC	
L-PBE_Mouse		TCTCCCCAGC CCACATCATG AGGTTACTAG AGTCATTCC TAGCCGATAC	
L-PBE_Rat		TCTCACCGAC CCATGTCATG AGGTTGCTAG AGTCATTCC TAGCCGATAC	
L-PBE_Canine	1351	TCTTCCCCCA CTACCATTCG CACAGTTATG AATTATCAA AAAAGATTAA	1400
L-PBE_Human		TCTTCCCCCA CTACCATTCG CACTGTTATG AACTTATCAA AAAAGATTAA	
L-PBE_Mouse		TCTTCCCCCA CTACCATCGC CACAGTCATG AGCTTATCCA AAAGGATTGG	
L-PBE_Rat		TCTTCCCCCA CTACCATCGC CACGGTTATG AGCTTGTCCA AAAAGATCGG	
L-PBE_Canine	1401	AAAAATTGGA GTAGTTGTTAG GTAACTGTTT TGGATTGTT GGCAATCGAA	1450
L-PBE_Human		AAAGATTGGA GTCGTTGTTAG GCAACTGTTT TGGATTGTT GGCAATCGAA	
L-PBE_Mouse		AAAGATTGGA GTCGTTGTTAG GTAACTGCTA TGGATTGTT GGCAATCGAA	
L-PBE_Rat		AAAGATTGGA GTAGTGGTTAG GCAACTGCTA TGGATTGTT GGCAATCGGA	
L-PBE_Canine	1451	TGTTGAAGCC TTATTACAAT CAGACGTATT TCTTGTAGA AGAAGGCAGT	1500
L-PBE_Human		TGTTGAATCC TTACTACAAT CAGGCATATT TCTTGTAGA AGAAGGCAGC	
L-PBE_Mouse		TGTTGGCTCC CTATTACAAC CAGGGCTATT TCTTGTAGA GGAAGGTAGT	
L-PBE_Rat		TGTTGGCTCC CTATTACAAC CAGGGGTTTT TCTTGTAGA GGAAGGTAGC	
L-PBE_Canine	1501	AGGCCAGAGG AGATAGATCA GGTGCTGGAA GAGTTTGGTT TCAAAATGGG	1550
L-PBE_Human		AAACCAGAGG AGGTAGATCA GGTGCTGGAA GAGTTTGGTT TTAAAATGGG	
L-PBE_Mouse		AAGCCAGAGG ATGTAGATGG GGTCTTAGAA GAGTTTGGTT TTAGAATGGG	
L-PBE_Rat		AAGCCAGAGG ATGTAGACGG GGTCTGGAA GAGTTTGGTT TTAAAATGGG	
L-PBE_Canine	1551	ACCTTTAGA GTGTCAGATC TTGCTGGATT GGATGTGGGT TGGAAATCTC	1600
L-PBE_Human		ACCTTTAGA GTGTCAGATC TTGCTGGTT GGATGTGGGC TGGAAATCTA	
L-PBE_Mouse		ACCCTTCAGG GTGTCAGATC TCGCAGGGCT AGATGTGGGT TGGAAAGTTC	
L-PBE_Rat		ACCCTTCAGA GTGTCAGACCC TCGCAGGGCT AGATGTGGGT TGGAAATTC	
L-PBE_Canine	1601	GACAGGGGCA AGGTCTTACT GGACCTATGG TGCCCTCAGG AACTCCTGCC	1650
L-PBE_Human		GAAAGGGGCA AGGTCTTACT GGACCTACAT TGCTTCCAGG AACTCCTGCC	
L-PBE_Mouse		GCAAAGGGCA AGGCCTTACT GGACCGTCCT TACCTCCAGG AACCCCCCACC	
L-PBE_Rat		GCAAGGGGCA AGGCCTTACT GGACCATCAT TGCCACCAGG GACCCCCGGTC	

Figure 2D

L-PBE_Canine	1651	CGGAAGCGAG GCAACAGGAG ATACTGTCCA ATTCTGATC TGCTCTGTGA	1700
L-PBE_Human		CGAAAAAGGG GTAATAGGAG GTACTGCCA ATTCTGATG TGCTCTGTGA	
L-PBE_Mouse		CGAAAAGAGGG GCAATACCA GTACTCCCCA ATTGCTGATA TGCTCTGTGA	
L-PBE_Rat		CGAAAAGAGGG GCAACAGCAG GTACTCCCCA CTTGGCGATA TGCTCTGTGA	
L-PBE_Canine	1701	ATCAGGACGA TTTGGCCAGA AGACAGGGAA AGGTTGGTAC CAATATGATA	1750
L-PBE_Human		ATTAGGACGA TTTGGCCAGA AGACAGGTAA GGGTTGGTAT CAATATGACA	
L-PBE_Mouse		AGCTGGGCGA TTTGGTCAGA AGACAGGTAA GGGCTGGTAT CAGTATGACA	
L-PBE_Rat		AGCTGGGCGG TTTGGTCAGA AGACAGGTAA AGGCTGGTAT CAGTATGACA	
L-PBE_Canine	1751	AGCCATTGGG TAGGATTCAC AAACCTGACC CCTGGCTTTC TGAATTCTG	1800
L-PBE_Human		AGCCATTGGG TAGGATTCAC AAACCTGATC CCTGGCTTTC CACATTCTA	
L-PBE_Mouse		AGCCACTGGG TCGCATCCAC AAACCTGATC CCTGGCTTTC TGAGTTCTG	
L-PBE_Rat		AGCCACTGGG TCGCATCCAC AAACCTGATC CCTGGCTTTC TACGTTCTG	
L-PBE_Canine	1801	TCACACTACA .GAAAAAACCTA TCACATTGAG CCACGTATCA TTAGCCAGGA	1850
L-PBE_Human		TCACCGTATA GAAAACCCCCA TCACATTGAA CCACGTACCA TTAGCCAGGA	
L-PBE_Mouse		TCACAGTATA GAGAAACCCA TCACATCAAG CAGCGCTCCA TCAGCAAGGA	
L-PBE_Rat		TCACAATATA GAGAGGTTCA CCACATCGAG CAGCGCACCA TCAGCAAGGA	
L-PBE_Canine	1851	TGAGATCCTT GAGCGTTGCT TATATTCACT TATCAATGAA GCATTCCGTA	1900
L-PBE_Human		TGAGATCCTT GAACGCTGCT TATATTCACT TATCAATGAA GCATTCCGTA	
L-PBE_Mouse		GGAAATCCTG GAGCGTTGCT TATATTCCCT TATCAACGAG GCATTCCGCA	
L-PBE_Rat		GGAGATCCTG GAGCGTTGCT TATATTCCCT CATCAATGAG GCGTTCCGCA	
L-PBE_Canine	1901	TCTTGGGAGA AGGGATGGCT GCTGATCCAG AGCACATTGA TGTTGTCTAT	1950
L-PBE_Human		TCTTGGGAGA AGGGATAGCT GCTAGCCCAG AGCACATTGA TGTTGTCTAT	
L-PBE_Mouse		TCTTGGGAGA GGGGATGGCC GCTAGCCCAG AGCACATTGA TGTCATCTAC	
L-PBE_Rat		TCTTGGGAGA GGGGATGGCT GCTCGCCCAG AGCACATTGA TGTCATCTAC	
L-PBE_Canine	1951	TTACACGGGT ACGGATGGCC AAGGCATAGG GGTGGACCCA TGTTCTATGC	2000
L-PBE_Human		TTACATGGAT ATGGATGCGC AAGGCACAAG GGCGGGCCCA TGTTCTATGC	
L-PBE_Mouse		TTGCATGGGT ATGGGTGGCC AAGGCACGTG GGTGGGCCA TGTACTATGC	
L-PBE_Rat		TTGCACGGGT ACGGGTGGCC AAGGCACAAG GGCGGGCCCA TGTTCTATGC	
L-PBE_Canine	2001	CTCCACAGTT GGGTTGCCCA CAGTGCTAGA GAAGTTGCAA AAATATTACA	2050
L-PBE_Human		TTCCACAGTT GGGTTGCCCA CAGTTCTAGA GAAATTGCGAG AAATATTACA	
L-PBE_Mouse		TGCCTCAGTT GGGCTGCCCA CAGTTCTAGA GAAATTGCGAG AAATATTACA	
L-PBE_Rat		TGCCTCAGTT GGGTTGCCCA CAGTTCTAGA GAAACTGCGAG AAATATTACA	
L-PBE_Canine	2051	GGCAGAATCC TGATATTCCA CAACTAGAGC CTTGTGACTA TCTGAAAAAA	2100
L-PBE_Human		GGCAGAACCC TGATATTCCC CAACTGGAGC CAAGTGACTA TCTAAAAAAA	
L-PBE_Mouse		GACAGAATCC TGACATCCCC CAGCTGGAGC CCAGTGACTA CCTGAGGAGG	
L-PBE_Rat		GGCAGAACCC TGACATCCCC CAGCTGGAGC CCAGTGACTA CCTCAGAAGG	
L-PBE_Canine	2101	TTGGCTTCCC TGGGCAACCC GCCTCTGAAA GAATGGAAA GCTTGGCAGG	2150
L-PBE_Human		CTGGCTTCTC AGGGAAACCC TCCCCTGAAA GAATGGAAA GCTTGGCAGG	
L-PBE_Mouse		CTGGTTGCCA AGGGAAAGCCC TCCCTCTGAAA GAATGGAAA GCTTGGCAGG	
L-PBE_Rat		CTGGTAGCCC AGGGAAAGCCC TCCCTCTGAAG GAATGGAAA GCTTGGCAGG	
L-PBE_Canine	2151	CTCCCCCTAGC AGTAAATTG	2169
L-PBE_Human		CTCCCCCTAGC AGTAAATTG	
L-PBE_Mouse		ACCCCATAGC AGCAAACGT	
L-PBE_Rat		GCCCCACGGC AGCAAACGT	